BOOK

ons			Reference to last Measurement 8
readth 5	Depth 6		
al Rs:		14,96,196-00	
IT -		2,9924-00	
Cess -		14962-00	
CBF -		1496-00	
IFSD -		74810-00	
CGST -		13359-00	
SGST -		13359-00	
dJU -		147910-00	
Cheques		13,48,286-00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. ...1st and final bill:-

Name of Work ...construction of RCC-drain from at chimeppa layout in ward no.07 byatarayanapura

496355

Name of Contractor of nature of Agency :-

Date of commencement of work :- M/s. KRIDL.

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	tst cost:-	Rs.15.00 lakhs					
	Job number:-	007-18-000084					
	Head of account:-	P3296					
	A.S.NO:-	AS/CE(YNK)/112/18-19; dt: 08.01.19					
	T.S.NO:-	TS/EE(BTP)/101/18-19; dt: 01.02.19					
	Workorder no:-	No. BBMP/EE/BTP/100/246/18-19, dt: 28.02.19					

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 01:- Premeasurements recorded on:- 01-03-19						
	Earthwork excavation by manual means in ordinary soil, involving an average horizontal throw upto 2m.,						
	Theross road:- 0-30	2	30.0	0.80	0.80	= 38.40	
	30-60	2	30.0	0.80	0.80	= 38.40	
	60-70	2	8.0	0.80	0.80	= 10.24	
						87.04 cum	
	Main road:- 0-30	01	30.0	0.60	0.60	= 10.80	
	Desilting of drains: 30-60	01	30.0	0.60	0.60	= 10.80	
	60-90	01	30.0	0.60	0.60	= 10.80	
	90-120	01	30.0	0.60	0.60	= 10.80	
	120-150	01	30.0	0.60	0.60	= 10.80	
	150-180	01	30.0	0.60	0.60	= 10.80	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Age
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	For RCH:- Qty Ltd to Clerk Engg 4/3/19

Contents 7	Reference to last Measurement 8
in ordinary soil,	
o 2m.,	
0 = 38.40	
0 = 38.40	
0 = 10.24	
87.04 cum	
60 = 10.80	
60 = 10.80	
60 = 10.80	
60 = 10.80	
60 = 10.80	
60 = 10.80	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496356

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
						= 64.80 cum	
	For Roll:-	17	0.5	-	3.0	= 25.62 cum	
				Total =		177.46 cum	
	Qty Ud to 177.42 cum						
	Cert						
	Qty 4/3/19						
					Actually N.D		
					DE(W)		
					1/3/19		

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.02:- Premeasurements recorded on:				11-3-19		
	Providing and laying 40mm.,						
	13th cross road:- 0-30	2	30.0	0.80	0.15	= 7.20	
	30-60	2	30.0	0.80	0.15	= 7.20	
	60-70	2	8.0	0.80	0.15	= 1.92	Apply N.O
						16.32 cum.	
	Item No.04:- Premeasurements recorded on:				11-3-19		
	Providing TMT steel reinforcement.,					Total length	
	CH:	NO.	L	No of rods	Le of D bas	10mm	8mm
	Main road: 0-30	02	30.0	340	1.65	1122	-
	Distribution:	02	30.0	7.0	-	-	420

Serial No. .....
Name of Work .....
Name of Contractor of nature o
Date of commencement of wor

Date	Full description, etc,
1	2
	Main road:
	Distribution:
	10mm
	8mm

K

	Contents	Reference to last Measurement
epth 6	7	8
-3-19		
·15 = 7·20		
·15 = 7·20		
·15 = 1·92	Actually N.D	
	16·32 cum.	
1-3-19		
	Total length	
le of b bar	10mm	8mm
1·65	1122	-
-	-	420

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496357

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Main road: 30-60	02	30·0	340	1·65	1122	-
		02	30·0	7·0	30·0	-	420
	Distribution:						
	60-70	02	10·0	125	1·65	206·25	-
		02	10·0	7·0	10·0	-	140
						2450·25	980
	10mm @ 0·62 kg/cum = 1519·16						
	8mm @ 0·39 kg/cum = 382·2						
	Total = 19013·00						
	Qty ltd to. 1·89 ~~kg/cum~~ tm.					Actually N.D	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	~~Premeasurements recorded on: 11-03-19~~						
	Item.No.05:- Providing and removing centering, shuttering, strutting, propping etc.,						
	13th D'cross:-						
	RCC-drain -sidewall:-0-30	2×4	30.0	-	0.45	= 108.00	
	30-60	2×4	30.0	-	0.45	= 108.00	
	60-68	2×4	8.0	-	0.45	= 28.80	
						244.80 Sqm	
	cc&c 1/3/19						
	Not pll. NP 5t(12)						
	Item.No.08:- Laying Reinforced cement concrete NP2 prestressed concrete pipe for culverts.,						

Serial No. .....
Name of Work .....
Name of Contractor of natu
Date of commencement of

Date	Full description,
1	2
	for pits:-
	Item.No.09:-
	c&c 13/3

	Contents	Reference to last Measurement
	7	8
	...thering, strutting,	
	= 108.00	
	= 108.00	
	= 28.80	
	244.80 sqm	
	...NP2/prestressed	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

496358

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	for pits:-	17	1.5	-	-	25.50 m	
						Rate/14.N.D SE(NZ) 13/3/19	
	Item.No.09:- Providing	100mm and down size nominal size.,					
		17	0.28	-	0.50	= 2.38	
		Qty Hd to		2.26 cum			
	cube 13/3					Rate/14.N.D SE(NZ) 13/3/19	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item.No.10:- Providing 40mm and down size.,	17	0.28	-	0.3	= 1.43	
	Qty ltd to 1.13 cum						
	Abstly.N.D AE(WT) 13/3/19						
	Item.No.11:- Providing 20mm and down size nominal size.,	17	0.28	-	0.20	= 0.95	
	Qty ltd to 0.85 cum						
	Abstly.N.D AE(WT) 13/3/19						

Serial No. MAIN - BILL:

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Item.No.01:- Earthwork in involving an average lift upto 1.5m, excavated the disposed earth to b	
	Qty vide page	
	At the rate of	

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
	0.3 =	1.43	
f nominal size;	0.20 =	0.95	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496359

Serial No. MAIN - BILL: ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 01:- Earthworks excavation by manual means in ordinary soil involving an average horizontal throw upto 2m and an average lift upto 1.5m, excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after breaking clods.,					177.42 cum	24307-
	Qty vide page no. 496356 →						24448.48
	At the rate of Rs. 137.00 →						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 02:- Providing and laying in position plain cement concrete of nominal mix 1:4:8 with OPC @ 180 kgs, using 40mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed concrete laid in layers not exceeding 15cm th. well compacted in foundation and including cost of all materials labour, HOM of machinery.;						
	Qty vide page no. 496056 →					16.20 cum	
	At the rate of Rs. 5408.12 →						87611.54

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No 04:- Providing straightening, cu lapping and or welc bolts and anchoring cost of materials, la Qty vide pa At the rate o

BOOK

ons		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
position		plain cement	
with OPC @ 180 kgs, using granite metal coarse			
aggregates @ 0.57 cum			
ayers not exceeding 15cm,			
and including cost of			
chinery.;			
→		16.20 cum	
→			87611.54

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496360

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No. 04:- Providing TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping and or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever required cost of materials, labour, HOM of machinery.;						
	Qty vide page no. 496357 →				1.89 ~~kg/cum~~ tm		
	At the rate of Rs. 75223.96 →						142173.25

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No.05:- Providing and removing centering, shuttering, strutting propping etc, for columns, pillars, piers, abutments, post and struts, square/rectangular slab/side walls polygon in plain including cost of materials, labour complete as per specification.,						
	Qty vide page no. 496357 →					243.00 Sqm	
	At the rate of Rs. 483.36 →					1174564.8	

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, o
1	2
	Item No.08:- Layi concrete pipe fo in single row inc excluding excav works in head
	Qty vid
	At the rat

BOOK

adth 5	Depth 6	Contents 7	Reference to last Measurement 8
ng, shuttering, strutting			
s, abutments, postand			
ide walls polygon			
, labour complete as			
3.00 Sqm)			
		1174564.8	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496361

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.08:- laying reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete.;						
	Qty vide page no. 496358 →					25.50m	
	At the rate of Rs. 5976.28 →						
							152395.14

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 09:- Providing 150mm and down size nominal size., Qty vide page no. 496358 → 2.26 cum At the rate of Rs. 987.62 →					2232.02	
	Item No. 10:- Providing 40mm and down size nominal size., Qty vide page no. 496358 → 1.13 cum At the rate of Rs. 1091.43 →					1233.32	
	Item No. 11:- Providing 20mm (1091.43) and down size nominal size., Qty vide page no 496358 → 0.85 cum At the rate of Rs. 1091.43 →					927.72	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No. 12:- loading sand / kankar / moor Qty vide p At the rate
	Item No. 03:- Providing design mix M20 wit granite metal coa e0.459 cum with 3 re-affirmed 2008 n

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
minal size., .26 cum			2232.02
minal size., cum			1233.32
nominal size., 0.85 cum			927.72

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496362

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.12:- loading and unloading of stone boulders / stone aggregates / sand / kanker / moorum., Qty vide Item no.01 → 177.42 cum @ Rs. 94.34 →						16737.80
	Item No.03:- Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs with 20mm & down size graded granite metal coarse aggregates @0.878 cum and fine aggregates @0.459 cum with superplastizers @3Hs conforming to IS 9103-1999 re-affirmed 2008 machine mixed, concrete laid in layers not exceeding 15cms						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	RCC-drain - bottom 0-30	02	30.0	0.80	0.15	= 7.20	
	30-60	02	30.0	0.80	0.15	= 7.20	
	60-70	02	8.0	0.80	0.15	= 1.92	
						16.32 cum	
	Sidewall:- 0-30	4	30.0	0.15	0.45	= 8.10	
	30-60	4	30.0	0.15	0.45	= 8.10	
	60-70	4	8.0	0.15	0.45	= 2.16	
						18.36 cum	
	Coping on sidewalls of old drain						
	12th cross: 0-30	2	30.0	0.15	0.10	= 0.90	
	30-60	2	30.0	0.15	0.10	= 0.90	
	60-90	2	30.0	0.15	0.10	= 0.90	
	90-122	2	32.0	0.15	0.10	= 0.96	
						38.34	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	13th cross: 0-
	30-
	Qty Ltd -
	At the rat

	Contents	Reference to last Measurement
pth 6	7	8
5	= 7.20	
5	= 7.20	
5	= 1.92	
	16.32 cum	
45	= 8.10	
45	= 8.10	
45	= 2.16	
	18.36 cum	
.10	= 0.90	
.10	= 0.90	
.10	= 0.90	
.10	= 0.96	
	38.34	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496363

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 38.34	Reference to last Measurement 8
	13th chas: 0-30	2	30.0	0.15	0.10	= 0.90	
	30-60	2	30.0	0.15	0.16	= 0.90	
						5.46 cum	
						Total = 40.14 cum	
	Qty ltd to	39.89 cum					239281.76
	At the rate of Rs. 5998.54 →						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No 06:- Providing and fixing 10cm th pre cast RCC covering slab using reinforced cement concrete 1:2:4 mix with stone aggregate 20mm and down size including centering shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15cm th well compacted cost of all materials labour,						
	13th 'A' cross:- 0-30	2	50	0.60	0.90	= 54.0	
	30-60	2	48	0.60	0.90	= 51.30	
	60-70	2	15	0.60	0.90	= 16.20	
	Old drain:-						
	12th cross:-	01	120	0.60	0.90	= 64.80	
	13th cross:-	01	100	0.60	0.90	= 54.00	
						240.30 Sqm	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	At the rate of
	Item No 07:- Providing
	13th A cross
	12th cross
	13th A cross
	1.
	At the
	3/4/1

OOK

lth	Depth 6	Contents 7	Reference to last Measurement 8
		pre cast RCC covering	
		1:2:4 mix with	
		size including	
		nd bar bending	
		rs not exceeding	
		materials labour.)	
·60	0·90	= 54·0	
·60	0·90	= 51·30	
·60	0·90	= 16·20	
·60	0·90	= 64·80	
0·60	0·90	= 54·00	
		240·30 Sqm	

M. A. R. 57 (Rule 116) **No. B**

Measurement Book

496364

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
				Limit	239.22.		502362-
	At the rate of Rs. 2100.00 →						502362.00
							504630-
	Item. No. 07:- providing and fixing MS grating 260×260 mm						
	13th A cross	20	-	-		= 20	
	12th cross	20	-	-		= 20	
	13th A cross	10	-	-		= 10	
						50 nos	
	1.						
							4717·00
	At the rate of Rs. 94·34 →						
	C.C. Jr						
	3/4/19						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Total =	1291576.54	12,91,435-
					Add 12% GST charges =	154989.18	155244- 159472- 38743-
					Add 3% KRIDL charges =	38747.30	129 14-
					Add 1% labour charges =	12915.77	14,98,064-
					Grand total =	1498228.80	
	Note: N.D AE(WZ) 30/3/19						

Serial No. .....
Name of Work .....
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, o
1	2
	towards dasarahalli main rd

BOOK

ons		Contents	Reference to last Measurement
readth 5	Depth 6	7	8
~~12.91403.40~~			
129 1576.54			12,91,435-
155244			159472-
154989.18			38743-
= 38747.30			129 14-
= 12915.77			14.98,064-
= 1498228.80			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496365

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	towards dasarahalli mainrd ←		(2×70) 13th A			towards coffee board lyt →	
						2 CON hospital	INDEX - New drain - old drain.
			PLAN			Bdry. N.D AE(17)	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificate:-						
	1) Certified that contractor has completed the work.						
	2) Certified that debris has been removed from work spot..						
	Actually N.D AE (Int)						

4974 1/1/07

Serial No. Royalt
Name of Work
Name of Contractor of na
Date of commencement

Date	Full description
1	2
	Details
	01. PCC - 16
	03 20mm -
	Abstract:-
	1) Coarse
	2) Fine

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
ted the work.			
d from work spot..			
3/4/15			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

496366

Serial No. Royalty charges:-
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length (coarse)	Breadth 5 (fine)	Depth 6	Contents 7	Reference to last Measurement 8
	Details	Co-eff	Qty	Co-eff	Qty.		
	01. PCC - 16.20 cum	0.96	15.55	0.48	7.77		
	03 20mm - 39.89 cum	0.85	33.90	0.416	16.59		
	Total=		49.45		24.36		
	Abstract:-						
	1) Coarse aggregate:	49.45 @ 105	cum =		5192.25		
	2) Fine aggregate:	24.36 @ 103	cum =		2509.08		
					7701.33		

MEASUREMENT BO

Date	Full description, etc, of work	Dimensions			ents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5		8

Total: 14,98,064-00

IT - 29961-00
Cess - 14981-00
CBF - 1498-00
LR - 17701-00
(FSD) 64903-00
CGST - 13376-00
SGST - 13376-00

Add: 155796-00
Charges 1342268-00

ಬಿಲ್ಲು ಮೊಬಲಗು ರೂ. 14,98,064-00
ಗಳನ್ನು ಪಾಸು ಮಾಡಿದ ಇದರಲ್ಲಿ ರೂ. 155796-00
ಹೊಂದಾಣಿಕೆ ಮಾಡಿಕೊಂಡು ಉಳಿದ ಮೊಬಲಗು ರೂ. 1342,268-00
Rs. Thirteen Lakh forty two thousand two hundred sixty eight only.
ಚೆಕ್ ಮುಖಾಂತರ ನೀಡಲಾಗಿದೆ

ಲೆಕ್ಕಪರಿಶೋಧನೆಗೆ 4/4
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ. ಬೆ. ಮ. ಪಾ. 4/4

4/04

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

4944 1/1/07

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2